RECEIVED CENTRAL FAX CENTER

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AMENDMENTS TO THE SPECIFICATION:

At page 7, lines 5-10, please amend the following paragraph of the specification as follows:

In order to achieve the above-mentioned object, a band control device of the present invention according to claim 1 comprises: a controller for aggregating a plurality of physical links into a single logical link, and a distributor for distributing a traffic to a sub-logical link into which specified ones of the physical links in the logical link are aggregated so as to meet a specified condition of the traffic.

At page 8, lines 26-28, please amend the following paragraph of the specification as follows:

Also, in the present invention of claim 2, the distributor may comprise a traffic monitor for monitoring a traffic amount which meets the specified condition, and a manager for assigning the physical links of a number corresponding to the traffic amount to the sub-logical link.

At page 9, lines 14-18, please amend the following paragraph of the specification as follows:

Also, in the present invention of claim 3, when detecting that the traffic amount becomes smaller than a predetermined value during a predetermined period, the traffic monitor may release an aggregation of the sub-logical link to assign no sub-logical link exclusively used for the traffic which meets the specified condition

At page 10, lines 19-21, please amend the following paragraph of the specification as follows:

Therefore, in the band control device of the present invention according to claim 4, the controller may transmit/receive a message for establishing the sub-logical link to/from an opposite controller.

At page 10, lines 27-28, please amend the following paragraph of the specification as follows:

Also, in the present invention of claim-5, the controller may relay the message to a subsequent apparatus.

At page 11, lines 16- page 14 line 17, please amend the specification as follows:

In the present invention of claim 6, when a failure occurs in the physical link not aggregated into the sub-logical link for example, the state can be avoided where a traffic except the traffic which meets a specified condition can not be communicated.

Also, in the present invention of claim 7, the controller may return a message for establishing a sub-logical link port having been established based on the received message as a return sub-logical link port, whereby a bidirectional sub-logical link may be established in order to guarantee the band of the traffic which meets the specified condition.

[0043]

Also, in the present invention of claim 8, the controller may return a response message for the received message, whereby the communication whose band is guaranteed may be reliably achieved between the end apparatuses.

Also, in the present invention of claim 9, the controller may return, in response to the message requesting the establishment of the sub-logical link, a message rejecting the request.

[0044]

Also, in the present invention of claim 10, when receiving the response message, the controller may commence a communication of the traffic which meets the specified condition, whereby the communication may be reliably commenced.

Also, in the present invention of claim 11, when a band of the sub-logical link requested by the received message is larger than an assignable band of a sub-logical link in the subsequent apparatus, the controller may discard the message and may return an error message, whereby the occurrence of the sub-logical link which becomes a bottleneck on a route may be avoided.

[0045]

Also, in the present invention of claim 12, a scheduler for transmitting a traffic, with a priority control, to the subsequent apparatus may be provided, and the controller may instruct the scheduler to transmit the traffic which meets the specified condition with a priority, and transmit a message notifying a request band of the traffic to the subsequent apparatus, whereby the band of the traffic which meets the specified condition in the link may be guaranteed by the scheduler when a single link having a large band on the route exits for example.

[0046]

Also, in the present invention of claim 13, when a communication of the traffic which meets the specified condition is completed, the controller may transmit a message requesting an establishment release of the sub-logical link corresponding to the traffic, thereby preventing the traffic which meets the specified condition from occupying the band more than needed.

[0047]

Also, in the present invention of claim-14, when receiving the message requesting the establishment release, the controller may relay the establishment release request message to a subsequent apparatus.

Also, in the present invention of claim 15, a traffic monitor for monitoring a traffic amount which meets the specified condition may be further provided, and the controller may release the establishment of the sub-logical link when the traffic amount becomes smaller than a predetermined amount. It is to be noted that the traffic monitor of claim 2 may be used as the traffic monitor.

[0048]

Also, in the present invention of olaim-16, when the physical link included in the sublogical link degenerates and no physical link substituted for the degenerated physical link can be secured, the controller may transmit a message requesting that a number of physical links included in the sub-logical link should be decreased, whereby the case where the physical link occupied by the sub-logical link degenerates by a failure on a route or the like, for example, may be attended.

[0049]

Also, in the present invention of claim 17, when no physical link exists since the physical link excluded in the sub-logical link is degenerated, the controller may transmit a message requesting that a number of physical links included in the sub-logical link should be decreased. whereby the state may be avoided where the traffic except the traffic which meets a specified condition can not communicate.

[0050]

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Also, in the present invention of claims 18-20, a traffic monitor for monitoring an amount of a traffic except the traffic which meets the specified condition may be further provided, and the controller may decrease a number of physical links included in the sub-logical link when the traffic amount becomes larger than a predetermined amount, and may output a message requesting that the number should be decreased. When receiving the number decrease request message, the controller may relay the message to a subsequent apparatus when it exists, and may decrease the number of physical links included in a corresponding sub-logical link when the apparatus does not exist, whereby the case where the traffic except the traffic which meets the specified condition increases may be attended.

[0051]

Also, in the present invention of claim 21, when receiving a message requesting an establishment of a sub-logical link different from the sub-logical link already established and no requested band can be secured, the controller may return an error message, thereby preventing the physical link included in the sub-logical link already established from being overlapped with another sub-logical link.

[0052]

Furthermore, in the present invention of claim 22, when receiving the error message, a source controller of the establishment request message may transmit again the establishment request message after a standby for a fixed period.

Also, in the present invention of claim 23, when a plurality of sub-logical links are established in the single logical link, the controller may determine a sub-logical link for decreasing a number of physical links by a priority of the sub-logical link.

[0053]

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Also, in the present invention of claim 24, the traffic from an opposite apparatus may be received by a collector.